कार्यालय, बाल्य एवं शिशुरोग विभाग

स्व. श्री लखीराम अग्रवाल स्मृति शासकीय चिकित्सा महाविद्यालय संबद्ध संत बाबा गुरू घासीदास जी स्मृति शासकीय चिकित्सालय, रायगढ़ (छ.ग.)

क्रमांक/बाल्य एवं शिशुरोग/2025/.....69..... रायगढ़, दिनांक 25/02/2025

2033
25/2/25

प्रति,

अधिष्ठाता
स्व. श्री लखीराम अग्रवाल स्मृति
शासकीय चिकित्सा महाविद्यालय रायगढ़ (छ.ग.)

विषय :– चिकित्सकीय उपकरणों के स्पेशिफिकेशन दर सहित मांगपत्र प्रस्तुत करने बाबत्।

संदर्भ :– कार्या अधिष्ठाता क्रमांक/चिकि.महा./क्रय/2024–25/1791 रायगढ़ दिनांक 21.02.2025

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उपरोक्त संदर्भित विषयांतर्गत लेख है कि स्व. श्री लखीराम अग्रवाल स्मृति, शासकीय चिकत्सिा महाविद्यालय, रायगढ़ के बाल्य एवं शिशुरोग विभाग में स्नातकोत्तर पाठ्यक्रय प्रारंभ एवं संचालित करने, दैनिक मरीजों के उपचार तथा पठन–पाठन हेतु क्रमांक 02 एवं 05 में दर्शित चिकित्सकीय उपकरणों के आपूर्ति हेतु राशि रू. 6,90,000/– के विरूद्ध उक्त उपकरणों का स्पेशिफिकेशन एवं वर्तमान लागत मूल्य (दर का आधार– जेम पोर्टल) सहित हार्ड एवं साफ्ट कापी में मांगपत्र चाही गई है। जो निम्नानुसार है :–

नवीन वर्तमान मांगपत्र :–

क्र.	विभाग	उपकरण का नाम	मात्रा	दर	राशि
01	Paediatrics	Bubble CPAP	04	215,000.00	8,60,000.00
				Total	**8,60,000.00**

अतएव उपरोक्तानुसार चिकित्सकीय उपकरणों का मांगपत्र तैयार कर कार्यवाही हेतु सादर प्रेषित है।

विभागाध्यक्ष
बाल्य एवं शिशुरोग विभाग
स्व.श्री ल.अ.स्मृ.शा.चि.महाविद्यालय संबद्ध
सं.बा.गु.घा.जी.स्मृ.शा.चि.(छ.ग.)

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Bubble CPAP Under water bubble system

Standards	
Certifications for the product	Both EU CE (with verified number) and USFDA
Certification number and date	257844-2018-CE-BRA-NA-PS & 07/06/18 And 13411-7-2018 & 25/07/18
Confirmity to quality management standards	ISO 9001 & ISO 13485
Confirmity to electrical safety standards	IEC 60601-1-2:2007, IEC 60601-1-8-2006: IEC 60601-1-SER- Ed 1.0-2011: or equivalent BIS standard
Performance Parameters	
UMDNS name and code	"Positive Airway Pressure Units, Bi-Level [20-743] Positive Airway Pressure Units, Continuous [11-001] Positive Airway Pressure Units, Expiratory [20-744] Positive Airway Pressure Units, Intermittent [20-745]"
Scope of item	Non invasive resp. support (CPAP) for Newborn infant
Clinical application	CPAP units deliver air or a mixture of air and oxygen (O2) at high flow rates through tubing to a nasal or oral-nasal mask which is affixed to the patient's face
Type of delivery system	Under water bubble system
CPAP volume	1 to 10 cmH2O
Increments of variations in CPAP	1 cm
Air oxygen blender	In built
FiO2 with tolerance (+/- 2 %)	21% to 100% (+/- 2 %)

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Flow range	0 -15 L/min
Humidifier	Heated wire servo controlled humidifier
Display of temperature	Near patient end of the circuit
Water chamber	2 numbers Reusable water chamber
Heated wire silicone tubing circuit for infant/Newborn	2 numbers Reusable Silicon
Machine should be able to deliver CPAP using available patient interfaces nasal prongs /nasopharyngeal prongs	Yes
Pressure release valve	15cmH2O to 17cmH2O
Weight in kg	8
Noise level in dB	50
Alarms	Audio alarm
Alarm sound level in dB	65
Patient Interface	Nasal Prongs
Number of nasal prongs supplied	30 consisting different sizes
Air and O2 hose length	> 3 m
Number of Infant Bonnets provided	30
Power Supply	230 V, 50 Hz, Single phase
Miscellaneous Parameters	
Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal	3

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warranty in the catalogue)

User/Technical/Maintenance manuals to be supplied in English in hard and soft copy	Yes
Details of equipments and procedures required for local calibration and routine maintenance to be supplied and advanced maintenance task documentation also to be furnished	Yes
Demonstration of equipment and training to be provided after completing supplies before acceptance	Yes
The Principal Manufacturer must have direct Presence/approved service center In India	Yes
Availability of toll free facility for technical support maintained by OEM or authorized agencies	Yes
Copies of reports and certifications to be furnished to buyer on demand at time of supplies	Yes

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कार्यालय, बाल्य एवं शिशुरोग विभाग

स्व. श्री लखीराम अग्रवाल स्मृति शासकीय चिकित्सा महाविद्यालय संबद्ध संत बाबा गुरू घासीदास जी स्मृति शासकीय चिकित्सालय, रायगढ़ (छ.ग.)

क्रमांक / बाल्य एवं शिशुरोग / 2025 / .....86.....

रायगढ़, दिनांक 17/03/2025

प्रति,

अधिष्ठाता
स्व. श्री लखीराम अग्रवाल स्मृति
शासकीय चिकित्सा महाविद्यालय रायगढ़ (छ.ग.)

विषय :– चिकित्सकीय उपकरणों के स्पेशिफिकेशन दर सहित मांगपत्र प्रस्तुत करने बाबत्।

संदर्भ :– कार्या अधिष्ठाता क्रमांक / चिकि.महा. / क्रय / 2024–25 / 2517 रायगढ़ दिनांक 11.03.2025

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उपरोक्त संदर्भित विषयांतर्गत लेख है कि स्व. श्री लखीराम अग्रवाल स्मृति, शासकीय चिकत्सिा महाविद्यालय, रायगढ़ के बाल्य एवं शिशुरोग विभाग में स्नातकोत्तर पाठ्यक्रय प्रारंभ एवं संचालित करने, दैनिक मरीजों के उपचार तथा पठन–पाठन हेतु क्रमांक 15 एवं 16 में दर्शित चिकित्सकीय उपकरणों के आपूर्ति हेतु राशि रू. 7,65,000/– के विरूद्ध उक्त उपकरणों का स्पेशिफिकेशन एवं वर्तमान लागत मूल्य (दर का आधार– जेम पोर्टल) सहित हार्ड एवं साफ्ट कापी में मांगपत्र चाही गई है। जो निम्नानुसार है :–

वर्तमान मांगपत्र :–

क्र.	विभाग	उपकरण का नाम	मात्रा	दर	राशि
01	Paediatrics	Phototherapy Unit	03	26,000.00	78, 000.00
02	Paediatrics	Radiant Warmer	13	47,600.00	6,18,800.00
				Total	**6,96,800.00**

अतएव उपरोक्तानुसार चिकित्सकीय उपकरणों का मांगपत्र तैयार कर कार्यवाही हेतु सादर प्रेषित है।

विभागाध्यक्ष
बाल्य एवं शिशुरोग विभाग
स्व श्री लखी राम अ. शा. चिकि. महा. संबद्ध
संत बाबा गुरु घासी दास जी स्मृति शा. चिकि. रायगढ़ (छ.ग.)

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Annexure-02

Phototherapy machine

Performance Parameters	
Purpose	The system emits light for reducing the concentration of bilirubin
Type of phototherapy machine	Double surface unit with bassinet (made of glass)
Phototherapy technology	LED
Light unit shall be made of easily cleanable plastic or fibre material	Yes
Type of coolinf	Natural cooling
The range of main radiation spectrum in nm	420-500
Peak wavelength of light in nm	450 to 465
Minimum spectral Irradiance in µW/cm2/nm	35 - 40 µW/cm2/nm at 45 cm height
Irradiance shall be free from UV and IR radiation	Yes
Availability of digital hour meter showing time	Treatment time for patient + Cumulative lamp hours
Machine should have timer to indicate monitoring therapy hours resettable and LED usage non resettable	yes
Interruption and a restoration of the power supply do not change preset values	Yes
Average Effective light field in mm2	1000-1500
LED life hours for LED light unit in hours	above 20000-upto 30000
Facility of Over temperature safety cut out	Yes
Mininmum height of phototherapy light unit	1100

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from floor to use near the mother bed in mm	
Maximum height of phototherapy light unit from floor to use near the mother bed in mm	1600
LED should not topple on 10 deg inclined angle	Yes
The irradiance ratio (min to max) on mattress	30 - 40 %
Indicator light shall be provided to indicate that equipment is in use	Yes
Free fall protection for LED	Counter balanced with locks
Phototherapy unit can be used with infant care trolley , radiant warmer and incubator and The base of the unit should be such that it will go beneath any incubator/bed/trolley with minimum of 100 mm floor clearance	Yes
Facility of adjustment of light intensity	Continuous vriable
Mobile stand with movable castors and height adjustment facility along with easy swiveling of source box	Yes
Number of castors	4
Number of brakes	2
All surfaces to be made of corrosion resistant materials	Yes
Noise (in dB)	44
Phototherapy unit shall be equipped with white light for observation purpose	Yes
Phototherapy unit shall be provided with irradiance measurement meter in µW/cm2/nm	Not provided

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Phototherapy unit shall consist of backlit LCD	Yes
Complete unit shall be easily washable and sterilizable using both alcohol and chlorine agents	Yes
Length of main cable in meter with power socket of standard Indian make to be provided	3
Power supply	230 ± 10 VAC, 50Hz
Maximum temperature range of machine in degree Celsius	40°C
Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	5
Additional Parameters	
Availability of Electrical protection by resettable over current breakers or replaceable fuses, fitted in both live and neutral lines	Yes
Power consumption in watts	upto 45
Number of replacement sets of fuses	Not provided
Number of Infant eye masks of different sizes	250
Operating temperature and humidity	Operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%
Reports	
Certifications for product	CDSCO
Certification No and date to be indicated	MH/M/MD/003079
Quality Management System Certification of manufacturer	ISO 13485 latest

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Quality Certification No and date to be indicated	IN92690H 27/4/21
Saftey standards	IEC 60601-2-50 :2009
Safety Certification No and date to be indicated	ITC/TEST/NN/2104/03-A 22/9/21
Copies of certifications to be provided to buyer on demand at time of supplies	Yes

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Infant Radiant Warmer

GENERAL	
Product Description	Infant Radiant Warmer
Purpose	Infant Radiant Warmer is a body warming device are used to maintain the body temperature of newborn infants.
PRODUCT INFORMATION	
Facility to display set and observed skin temperature in degree C and heater power output separately	Yes
User friendly touch panel control	Yes
Type of heater	Ceramic / High Alloy Steel / Quartz infrared / Calrod heater
Audiovisual alarm facility	Overheating beyond set temperature range,Spurt in Heater output i.e. more than 60% heater output for 10 minutes system should raise alarm and cutoff heater,Powerfailure,Heaterfailure,Patient temperature less/Greater than required/set temperature,Probefailure,Temperature Probe disconnect
Warmer head should be rotatable in different direction, so as to allow taking X-ray	Yes
Observation light Luminance	≥ 1000 Lux
Colour temperature	3700K to 5100K
Setable Temperature	32 to 38 Degree C
Temperature resolution	≤ 0.1 Degree C
Temperature accuracy	≤ 0.2 Degree C
Facility to lock the keyboard to avoid unwanted user modification of the set parameters	Yes

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Should have a Feather Touch operation with large digital display and comprehensive alarms, Control Panel should be liquid proof and allow easy and hygienic disinfection	Yes
Manual Mode can adjust Heater Output 10 - 100 %, with 10% increment	Yes
In Manual Mode an auditory and visual alarm shall be given at least every 15 minutes	Yes
Bed height from Floor (in cm)	80 to 100
Height Adjustable feature	NA
Bed Distance from the heat source (in cm)	80 to 90
Lockable castor wheels	Yes
Power ON Indication	Yes
Provision for X-Ray cassette holder	Yes
Markings on the bassinet and X-Ray cassette holder to enable proper positioning of the baby while doing the X-Ray	Yes
Number of tubing ports on the side walls (For cable management)	2 to 4
Height of the side walls over the mattress (in mm)	≥ 110
Bay bed should be crevice free for ease of cleaning, infection control	Yes
Mattress used should be of biocompatible material	Yes
Transparent collapsible side walls easily detachable for cleaning	Yes
Skin temperature probe with biocompatible baby contact material	Yes

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Mobility, portability on castors	Yes
2/4 of the castors should have brakes	Yes
Castor size	≥ 4 inch
Tilt-able bed (10 to 12 Deg) Lockable in position at any angle	Yes
Settings	
Settings with facility to clearly display the selected mode	Manual mode and Servo mode
Provision for Set temperature range (in servo mode)	32 to 38 Degree C
User's interface	Manual and Servo controlled temperature regulation
Display	LCD/ LED
Software and/or standard of communication(where ever required)	Inbuilt software; Interruption and restoration of the power supply does not change the preset values
Device shall not overbalance when placed in any transport position of normal use on a 10° inclined plane from the horizontal plane	Yes
Transformers of devcie shall be protected against overheating in the event of short circuit or overload of any output winding	Yes
Temperature on the baby mattress when the warmer is operating under steady temperature condition	Not exceed 43 Degree C
Temperature differences on the mattress	Not exceed 2 Degree C
PHYSICAL CHARACTERISTICS	
Overall Weight of equipment	≥ 50 Kgs
Mattress Dimension Length	60 Cms or more
Mattress Dimension Width	40Cms or more

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Auditory alarm shall be audible with minimum distance of 6 feet	Yes
Should maintain desired set temperature and uniform heat distribution in baby cradle	Yes
ACCESSORIES	
Number of Skin temperature probe (Reusable)	Not Provided
Number of Skin temperature probe (Disposable)	Not Provided
Number of IV pole	1
Number of Storage drawer	2
Number of Accessory tray (Minimum weight bearing capacity of 5Kg or more)	1
Number of X- ray tray	1
Number of Mattress	1
Thermal reflector to fix the skin probe to be supplied with each equipment unit	>= 50 units
ELECTRICAL REQUIREMENT	
Power Requirements	220 to 240V, 50 Hz AC, ± 10% of input
CERTIFICATIONS	
Compliance to Medical Device Rules (MDR) 2017 as amended till date	Yes
Availability of valid Medical Device license for the product issued from the competent authority defined under Drugs and Cosmetic Act 1940 and Rules made there under as amended till date	Yes
Valid Medical Device License Number	MFG/MD/2023/001016
Certification for manufacturing unit	ISO:13485 (Latest)
Availability of Test Report for each supplied	Yes

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batch/product as per Medical Device Rule (MDR) 2017 as amended till date	
Submission of all necessary certifications, licenses and test reports to the buyer at the time of bid submission or along with supplies as per buyer requirement	Yes
Electrical Safety Compliance Standard	IEC 60601-1-2 or Equivalent BIS
WARRANTY	
Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	1 year
ADDITIONAL REQUIREMENTS	
Additional Requirement	NA

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